VIATION DEC. 28, 1953 VEEK 50 ELEVANDER



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How Sundstrand helps solve design problems



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Carlo, Delles, Rabert H. Schot, Affanto, R. E. Declard, Son Personne, G. F.

by Males St. Publisher Corners James E. McCare St. 1981. Printer. Publisher Sciences and Printers.

ATTERNATURE S ACCESSORIES CORRODATION 1414 Chestrot Assess

MOST WIDELY USED CONTROL BEARINGS



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KAMAN HOK-1, the newest Novy high-performance hallcopter is designed for passerol willby service and converts to no paried ambulance. Schouster Aircraft Core, along Komen a production assist in the building of this most versatte helicantes

The Schweiger reputation for quelity standards, production oblige and the families for both subsentant work and the manufacture of Schweizer's internationally famous suitplanes is widely recognized and relief upon. When you need a production assist ... call an Schweiger.

*Other SCHWEITER Prediction Assists for Ball Gramman, Republic, Foliobild, Link, Stepley, etc.



The Aviation Week December 28, 1953

Headline News

horsey Tales Agreedy Patent Good . 15

Agrangatical Engineering

Production WARC on Magazzana Good Est. 34

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U.S. Jet Fighters Caught on the Wing

Here spectrosks action photos of the new USAF and Nave art.









By testing motors at 65°F below zero G.E. gives you more for your motor dollar

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AVIATION WEEK

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YEAGUE DISCUSSION ALL SID Larry Bell pight; builder at supermain reviet plane. Mach 2 Problem: Violent Controls

X-1A's 1,650-suph, flight confirms need for substantial research before new 1.000-mph, aircraft are designed. By Robert Hate Saw Sheek Wares-Years; noted that

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First Photos of New Brantly Copter

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SPLIT WHEEL New Tubeless Tire for airplanes cuts weight, gives safer landings

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New RCAF Building Is A.Bomb.Resistant

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and to our friends in aviation the world over. In addition to for trained outer-stronger for the air age yet to come.







LENK incites coupleymose applications from engineers and desfrances



Retractable AIR INTAKE SCREENS Could make the difference

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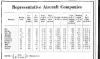


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AERONAUTICAL ENGINEERING

Martin Viking Engineer Presents . .

A Guide to High-Altitude Rocket Design



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Focke Convertiplane Kept Under Wraps /McGree Hill World News)

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What Are PROFITS Used For?

This is the second article on the role of precision in our economy. The first was addressed to the question: "How High me Prefits" "I have assaver was found to be: not high when compared with previous years and the present, investment in corporate facilities. This second article is addressed to the equally important question: "What do corporations do with their prefits!"

In 1981 corporations will seen about 28th billion derivance, if the recent rate of currings is muintained throughout the country of currings is muintained throughout the capacita and improve productive capacity country of the capacity of

working capital. This year corporations are increasing their plant, equipment and working capital by a tetal of approximately \$12 billion. Of this amount, about \$26 billion is fer new plant and equipment. The remainder is for working caultal. As this

article will show in greater detail, about \$21 billian of this will come from depreciation allowances and sales of new securities. The other \$11 billion will come

It is impossible to trace exactly, how each deliar of retained prefits is spent. This money is mixed with other maney that goes into the company treasury in the forms of proceed from bann, sale of securities and depreciation silmenses. However, it is a fact that by retaining \$2.1 biffices of their profits this year, below toward before the deposit requirements, including the money bear total experiences.

Profits Mean New Plants

This year American Industry is engaged in a very large expansion of plant facilities. This will increase the industrial capacity of the nation by about 7 per cent. Since 1966, our capacity has been increased by about 12.5 per cent. And all of this expansion has been privately financed, even though about one-third of it was critified as messaary for national.

fense. The expenditure during 1953 of \$25



billion for new plant and equipment-an to nav for the replacement of worn-out or obsolete ecciroment. Another \$8 billion will be raised by corporations through new security issues and long-term mortgage loans. All together, depreciation allowances, security issues and long-term loans. will provide about \$21 billion. But thus is still \$5 billion short of the \$26 billion. needed for new plant and conforment this year. Thus, it is retained profits that spell the difference between expansion and standing still, between growth in the pro-

ductive capacity of the economy and run-

ning downtill. As plant facilities are expended, cor-

porations also need more working cardtal. A larger volume of business requires larger inventories, larger accounts recosh to meet payrolls and bills for materials. The increase in these items during 1953 is estimated at \$8.5 billion, of which about \$2.5 billion will be searolied by short-term bunk lesse. The other \$6 billion will come from retained profits. Then patedred profits provide an essential \$11 billion - \$6 billion for working capital, \$5 billion for new plant and requirements.

Incentive for Investment steekholders as dividends or to employees

important than the role played by retained profits in providing plant, equip-McGraw-Hill Publishing Company, Inc.

ment and working capital. Dividend They are the reward for risks taken by investors. Dividends used by corporations whose common stocks are listed on the New York Stock Exchange provide an average return of about 6.5% at present are distributed among 6.5 million stockholders. Also, it is estimated that 3 mil-Hon employees now are covered by preditsharing plans. These plans increase the incentives of both production workers

have a direct financial stake in cornorate prefits through ownership of stock or participation in profit-sharing plans. But all Americans share indirectly in the rewards of a successful business year. Inis countied both for national defence and to produce more and better goods for a rising standard of living.

Thus, more than 9 million Americans.

Corporate profits after taxes represent about 6% of the nation's total incores. But the lob they do to stimulate investment and to finance industrial exnancion and improvement is more farreaching and more essential to the presperity and well-being of the Ameri-The role of the profits that are paid to can people than would be suggested by

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Easy-to-operate G-E Jet Engine Lets Pilot Concentrate on Interception

Electronic "Brain" Permits Complete Engine Control with Single Lever

INSTANT BURSTS OF POWER plus simplicity of operation make G.E.'s J47 with afterburner an outstanding powerplant for high-altitude interception. Powering the North American F-86D, America's first one-man rocketarmed interceptor, the afterburner version of the J47 is equipped with automatic electronic controls. For any throttle setting, the controls maintain optimum engine performance under varying flight conditions. This allows the pilot to focus his attention on his main job-seeking out enemy gircraft!

"SENSORS" FEED INFORMATION pertaining to engine pressure and temperature, air temperature, fuel-flow, and other variables into an electronic "brain." The

brain compares power needs with engine performance. Adjustments, if necessary, are then made automatically as the "brain" controls fuel-flow and variable area nozzle on the afterburner. AUTOMATIC ENGINE CONTROL is supplemented by

other features such as anti-icing provisions which are essential to high-altitude interception. These engineering accomplishments have been factored into the J47 by G.E.'s design, development, and manufacturing organization-an organization that is actively proving that "Progress is General Electric's most important product." Section 230-13, General Electric Company, Schenectady 5, N. Y.

You can put your confidence in_

